

Stefan Ataman

Curriculum Vitae

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*“Logic will get you from A to Z;
imagination will get you everywhere.” - Albert Einstein*

Professional Experience and Achievements

Academic and research

- Mar. 2016 – Present **Research Scientist (CS III)**, **EXTREME LIGHT INFRASTRUCTURE – NUCLEAR PHYSICS (ELI-NP)**, Bucharest – Măgurele, Romania.
- Sep. 2006 – Jan. 2016 **Reader/Research Associate**, **ECE PARIS GRADUATE SCHOOL OF ENGINEERING**, Paris, France.
- Sep. 2004 – Aug. 2006 **Research Assistant Professor**, **UNIVERSITÉ CERGY-PONTOISE**, Cergy-Pontoise, France.
- Feb. 2001 – Jul. 2004 **PhD thesis on the subject: “Power Control and Multiuser Detection in CDMA”**, **SUPÉLEC - UNIVERSITÉ PARIS-SUD**, Gif-sur-Yvette, France.
- Sep. 1999 – Jan. 2001 **Teaching assistant with the Radiocommunication Department**, **THE POLYTECHNIC UNIVERSITY OF BUCHAREST**, Bucharest, Romania.

Industrial

- 1997 – 2001 **Layout and Schematics Design Engineer in Integrated Circuits**, **LDIC CALIFORNIA (NOW ATMEL)**, Bucharest, Romania.
- 1999 – 2000 **Embedded Systems Engineer**, **LASERMED SRL**, Bucharest, Romania.

Reviewer

- 2004–2007 **Reviewer**, *IEEE Transactions on Vehicular Technology*.

Education

- 2001 – 2004 **Ph.D. Thesis in Automatics and Signal Processing**, *Université Paris-Sud (in the laboratories of the Telecommunications Department, École Supérieure d’Électricité – Supélec)*, Gif-sur-Yvette, France.
- 1999 – 2000 **M.S. in Radio and Optical Communications**, *The Polytechnic University of Bucharest*, Bucharest, Romania.
- 1994 – 1999 **B.S. in Telecommunications**, *The Polytechnic University of Bucharest*, Bucharest, Romania.

Online Scientific Profiles

[Google Scholar Profile](#)

[Researchgate Profile](#)

[Scopus Profile](#) Scopus ID: [56021441500](#)

[Publons Profile](#) Web of Science ResearcherID: [R-1867-2016](#)

[ORCID Profile](#) ORCID ID: [0000-0003-2423-578X](#)

[Linkedin Profile](#)

Latest Publications (2017 – present)

- [1] **Anca Preda, Stefan Ataman**, *Phase sensitivity for an unbalanced interferometer without input phase-matching restrictions*, PHYSICAL REVIEW A, **99**, 053810 (2019).
DOI link: <https://doi.org/10.1103/PhysRevA.99.053810>
- [2] **Stefan Ataman, Anca Preda, Radu Ionicioiu**, *Phase sensitivity of a Mach-Zehnder interferometer with single-intensity and difference-intensity detection*, PHYSICAL REVIEW A, **98**, 043856 (2018).
DOI link: <https://doi.org/10.1103/PhysRevA.98.043856>
- [3] **Sydney Gales and Kazuo A Tanaka and D. L. Balabanski and Florin Negoita and D. Stutman and Calin Alexander Ur and Ovidiu Tesileanu and Daniel Ursescu and Dan Gabriel Ghita and I. Andrei and Stefan Ataman and M. O. Cernaianu and L. D'Alessi and I. Dancus and B. Diaconescu and N. Djourelou and D. Filipescu and P. Ghenuche and C. Matei and K. Seto and M. Zeng and Victor Nicolae Zamfir**, *Extreme Light Infrastructure – Nuclear Physics pillar (ELI-NP) : new horizons in physics with high power lasers and brilliant gamma beams*, REPORTS ON PROGRESS IN PHYSICS, **81**, 094301 (2018).
DOI link: <https://doi.org/10.1088/1361-6633/aacfe8>
- [4] **Stefan Ataman**, *Vacuum-birefringence detection in all-optical scenarios*, PHYSICAL REVIEW A, **97**, 063811 (2018).
DOI link: <https://doi.org/10.1103/PhysRevA.00.003800>
- [5] **Stefan Ataman**, *A graphical method in quantum optics*, JOURNAL OF PHYSICS COMMUNICATIONS, **2**, 035032 (2018).
DOI link: <https://doi.org/10.1088/2399-6528/aab50f>
- [6] **Stefan Ataman, Mihai Cuciuc, Loris D'Alessi, Liviu Neagu, Madalin Rosu, Keita Seto, Ovidiu Tesileanu, Yi Xu and Ming Zeng**, *Experiments with combined laser and gamma beams at ELI-NP*, AIP CONFERENCE PROCEEDINGS, **1852**, 070002 (2017).
DOI link: <http://dx.doi.org/10.1063/1.4984872>

Teaching Experience

- Physics **Electro-dynamics, Electronics**
Responsibilities:
 - o *organizing and updating the tutorial session materials*
 - o *delivery of tutorial sessions*
 - o *student evaluation*
- Embedded systems **Microcontrollers, DSP, FPGA**
Responsibilities:
 - o *planning and conception of course materials*
 - o *delivery of lectures*
 - o *conception and implementation of laboratory sessions*
 - o *supervising student projects*
 - o *mid-term and final exam conception*
 - o *student evaluation*
- Signal processing **Introduction to signal processing**
Responsibilities:
 - o *planning and conception of course materials*
 - o *delivery of lectures*
 - o *conception of detailed lecture notes*
 - o *supervising student projects*
 - o *mid-term and final exam conception*
 - o *student evaluation*
- Telecommunications **Digital Communications, Antennas and Radio Propagation**
Responsibilities:
 - o *planning and conception of course materials*
 - o *delivery of lectures*
 - o *conception of detailed lecture notes*
 - o *mid-term and final exam conception*
 - o *student evaluation*

Ph.D. Tutorship and Student Internship Tutor

Ph.D. thesis co-adviser

- 2011 – 2015 **Rafik Zitouni** *Thesis title: "Software Defined Radio for Cognitive Wireless Sensor Networks: A reconfigurable IEEE 802.15.4 Standard"*
Defended on the 14th of October 2015

Internship Tutor

- 2007 – 2015 **tutor for 5th year students**

Apprenticeship

- 2009 – 2015 **tutor for around 3 apprentices per year**

Professional Certificates

- Radiation protection certificate – Level 1 "Radiation protection on the use of particle accelerators and radioactive sources" delivered by the Nuclear Training Center (CPSDN)

Some Technical, Software and Computer skills

Software

- Programming languages C,C++, assembler
Simulators Octave (Matlab), Mathematica

Office tools \LaTeX , LibreOffice, OpenOffice, MS Office
Operating systems Linux, Windows
Hardware
Embedded systems Microcontrollers (Microchip PIC)
DSP (Analog Devices Sharc and Blackfin)
FPGA (Xilinx Spartan)
Telecommunications Digital Communications, Signal processing
CDMA cellular systems

Languages

Romanian **Mother tongue**
English, French **Fluent**
German **Intermediate**

Hobbies

- Photography ([Website](#)) - Sports